

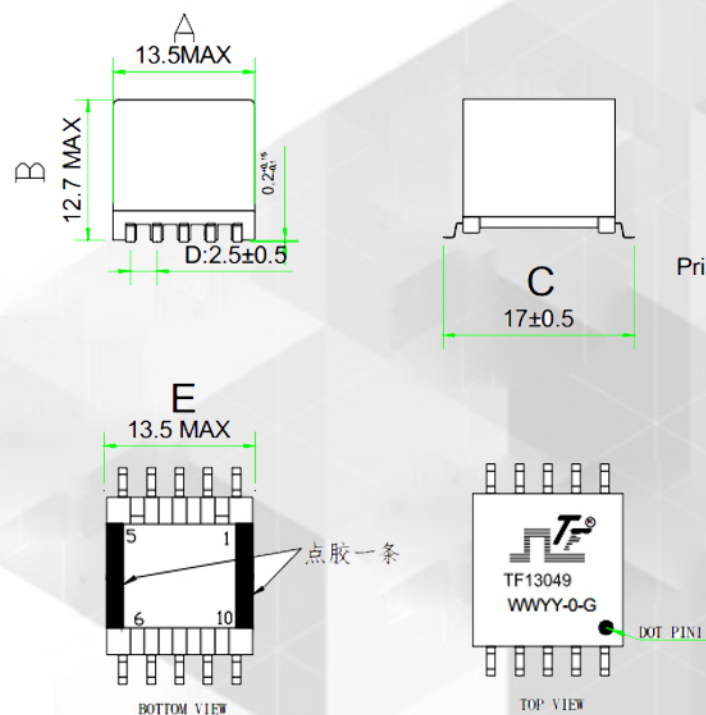


EP13 series

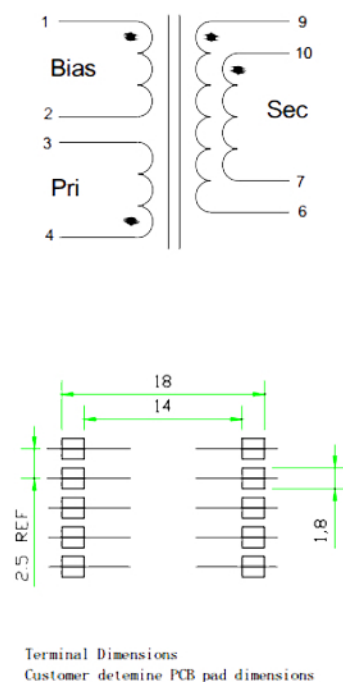
SMT flyback transformer for 13Watt PoE Application

•Designed to meet3 PoE IEEE 802.3at-2009 standard									
•Operates at 250 kHz with 36~72 Volts input.									
•Isolation: 1500 Vrms, one minute pri to sec; 500 Vrms pri to aux									
•Ambient temperature -40°C to +125°C									
•Storage temperature Component: -40°C to +125°C.									
•Tape and reel packaging: -40°C to +80°C									
•Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled									
to room temperature between cycles									
Model number	Power(W)	Inductance at 0 A ² ±10%(uH)	DCR max(Ohms)			Leakage inductance max(uH)	Turns ration		Output
			Pri	Bias	Sec		pri:sec	pri:bias	
TF13049	13	127	0.255	0.310	0.024	1.25	1:0.166	1:0.50	3.3V,4.0A

Mechanicals



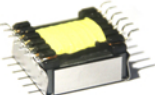
Schomatic



EP13 series

SMT flyback transformer for 6Watt and 13Watt PoE Application

- Designed to meet3 PoE IEEE 802.3at-2009 standard
- Operates at 250 kHz with 36~72 Volts input.
- Isolation: 1500 Vrms, one minute pri to sec; 500 Vrms pri to aux
- Ambient temperature -40°C to +125°C
- Storage temperature Component: -40°C to +125°C.
- Tape and reel packaging: -40°C to +80°C
- Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled

Specification and Dimension

Electrical characteristic:

	Item	Test Pin	Specifications	Short Pins	Testing Codition	Instruments
1	Inductance	1,2-3,4	42uH ±10%		100KHz/0.1V/SER	WK-3260B
2	Leakage Inductance	1,2-3,4	0.545uH MAX	5-6-7-8-9-10-11-12	100KHz/0.1V	WK-3260B
3	Turn Ratio	1,2-3,4:5-6	1:0.333±3%		20KHz/1V	WK-3260B
		(1,2-3,4):(7,8,9-10,11,12)	1:0.33±3%	(7,8,9):(10,11,12)		
4	HI-POT	Pri-Sec	1500VAC/50Hz	7-8,9-10	1Seconds/5mA	Zentech 9052
5	D.C. Resistance	1,2-3,4	80mΩ MAX		AT20° C	HK-502BC
		5-6	200mΩ MAX			
		(7,8,9-10,11,12)	30mΩ MAX	(7,8,9):(10,11,12)		

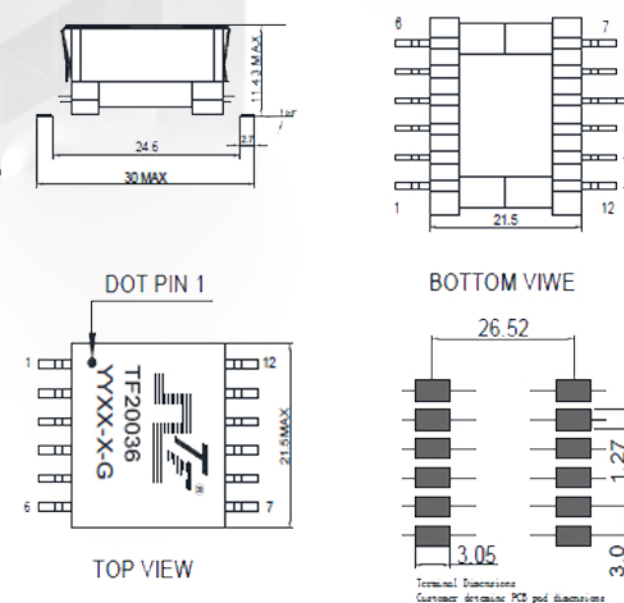
RoHS Compliant(Pb Free);

Operating Temperature Range:-20°C~ +60°C ;

Storage Temperature Component Range:-40°C~ +125°C.

Model NO.	TF20036	Model Name	Poe TRANSFORMER
Part NO.	TF20036	SIZE	EFD20 6+6 SMD Total 12PIN

Mechanicals



Schomatic

